Federal Interagency Traumatic Brain Injury Research (FITBIR) Informatics System Overview

What is FITBIR?

✓ Central repository for phenotypic, genomic, and imaging data from traumatic brain injury (TBI) studies

✓ Free web-based application with a user-friendly interface to contribute and access data (http://fitbir.nih.gov)

The basis of the FITBIR Informatics System is Biomedical Research Informatics Computing System (BRICS), which is organized by modules.

Data Repository

✓ Define and manage study information

✓ Contribute, upload and store research data that is associated to each study

Globally Unique Identifier (GUID)

✓ Enables data to be associated with a subject without exposing/transferring Personally Identifying Information (PII)

✓ Made up of random alpha numeric characters, not generated from PII

✓ Subject's GUID is independent but can be associated with one or more studies

Query (*FITBIR v2.0*)

✓ Provide functionality for querying, reporting, and exporting data in FITBIR

Data Dictionary

✓ Provides common definitions so data is consistently captured and recorded across TBI studies

✓ Incorporates and extends the Common Data Element (CDE) definitions developed by the National Institute of Neurological Disorders and Stroke (NINDS)

✓ Contains NINDS Data Elements (CDE), unique DE, and Form Structures (FS) which are placeholders for CDE and DE

ProFoRMS (Protocol & Form Research Management System)

✓ Overview from dashboard

✓ Manage research studies

✓ Set up roles and privileges to access research data

✓ Create forms, questions and build up user's own Question List

✓ Manage subject information and schedule visits

✓ Collect data and submit to FITBIR